CONTENTS

Internal-Combustion Engine Heat Transfer 1
G. BORMAN and K. NISHIWAKI

The Structure of Small-Scale Turbulence and its Effect on Combustion in Spark Ignition Engines 47
H. DANESHYAR and P. G. HILL

Cool Flames 75
P. G. LIGNOLA and E. REVERCHON

Radiation Heat Transfer in Combustion Systems 97
R. VISKANTA and M. P. MENGÜC

Thermokinetic Interactions: Fundamentals of Spontaneous Ignition and Cool Flames 161
J. F. GRIFFITHS and S. K. SCOTT

Chemical Kinetics in the Combustion Processes: a Detailed Kinetics Mechanism and its Implementation 199
V. Ya. BASEVICH

Computational Models and Methods for Continuous Gaseous Turbulent Combustion 249
S. M. CORREA and W. SHYY

Mixing, Transport and Combustion in Sprays 293
G. M. FAETH

Other Pergamon Titles of Interest

BASU	*Circulating Fluidized Bed Technology*
BASU	*Fluidized Bed Boilers*
DUNN and REAY	*Heat Pipes 3rd Edition*
FRANCIS and PETERS	*Fuels and Fuel Technology 2nd Edition*
GOSTELOW	*Cascade Aerodynamics*
HAYWOOD	*Analysis of Engineering Cycles*
HOLLAND	*Thermodynamic Design Data for Heat Pump Systems*
HORLOCK	*Cogeneration: Combined Heat and Power*
JALURIA	*Natural Convection Heat and Mass Transfer*
KRISTOFERSON	*Renewable Energy Technologies*
REAY	*Industrial Energy Conservation 2nd Edition*
REAY	*Innovation for Energy Efficiency*
REAY and McMICHAEL	*Heat Pumps 2nd Edition*
REIS and SMITH	*Energy Economics and Management in Industry*
TWIDELL	*Energy for Rural and Island Communities IV*
WEC	*Energy Terminology: A Multi-Lingual Glossary 2nd Edition*

Pergamon Related Journals (free sample copy gladly sent on request)

Annals of Nuclear Energy
Chemical Engineering Science
Energy
Energy Conversion and Management
Journal of Heat Recovery Systems & CHP
International Journal of Hydrogen Energy
International Communications in Heat and Mass Transfer
International Journal of Heat and Mass Transfer
International Journal of Multiphase Flow
OPEC Review
Physicochemical Hydrodynamics
Preview of Heat and Mass Transfer
Progress in Nuclear Energy
Solar Energy
Solar and Wind Technology